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Loading on

Continuous

Footing: Roof load

$$= 35 \text{ psf} \times (27' / 2 + 2') = 542.5 \text{ plf}$$

Wall Load = 16 psf

$$\times 8' = 128 \text{ plf}$$

Floor Load = Total Load

$$= 670.5 \text{ plf}$$

Required Width of

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Footing =
 $670.5/1000 =$
0.671' Use: 12"

wide x 12" deep
w/1-#4 rebar at
top and bottom.

FOUNDATION
DESIGN.

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Formulas Mode

Mean n = number

of data values max

events A and B and

C occurring in

sequence x A $q = 1$

$P(\sim A)$ = probability

of event A.

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Preference :
Analysis of structures, regardless of its purpose or complexity, is generally performed in the following.

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compilation puts
essential data
related to the

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Engineering
Formulas y footing
A = area of foot
Structural Design
qnet Steel Beam
Design: Moment M

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$n = F_y Z_x / M_a =$
allowable bending
moment $M_n =$
nominal moment
strength $\Omega_b =$
1.67 = factor of
safety for bending
moment $F_y =$ yield
stress $Z_x =$ plastic
section modulus
about neutral axis
Spread Footing
Design = q
allowable - p

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Formula Sheet

the analysis and design of primary structural system. The attachment of non- structural elements is the responsibility of the architect or designer, unless specifically shown

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otherwise. The Engineer assumes no responsibility for work not a part of these calculations. When structural observation or field

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structure into
simply supported
beam and
cantilever beam.

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Engineering Beam
Deflection
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Deflection

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Beam Deflection

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Chapter 9

Structural Analysis

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deflection D due to design load plus ponded water can be closely estimated by (9-6) where D_0 is deflection due to design load alone, S beam spacing, and S_{cr} critical beam spacing (Eq. (9-31)). Combined Bending and Axial

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Load. Concentric
Load Addition of a
concentric axial
load to a beam
under loads

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Formulas y footing

A = area of foot

Structural Design

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Design: Moment M

$n = F_y Z_x M_a =$

allowable bending

moment $M_n =$

nominal moment

strength $\Omega_b =$

1.67 = factor of

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Dapodik

There are near
about 500 formulas
along with the
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all the Civil
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formulas and equations are useful for a wide array of design applications ranging from structural analysis to soil mechanics etc.

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WHAT IS
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ENGINEERING?

Structural engineering is a branch of civil engineering that involves the application of the laws of physics, mathematics and empirical knowledge to safely design the 'bones' and load bearing elements

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of man made structures. Modern day structural engineering provides a large and detailed body of knowledge that can accurately predict the performance of ...

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46. Draw structural formulas for the

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following alcohols,
and tell if each is
primary,
secondary, or
tertiary: (a)
1-butanol (b)
2-butanol (c) 3,3-di
methyl-2-butanol
(d) 3,3-dimethyl-1-
butanol 47. Write
the formula, and
draw the structure,
for each of the...

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